City of FRESNO

DEVELOPMENT & RESOURCE MANAGEMENT DEPARTMENT
BUILDING & SAFETY SERVICES

MULTI-FAMILY / CONDOMINIUM (3 OR MORE UNITS)

RE-ROOF PERMIT APPLICATION
2013 CALIFORNIA BUILDING & ENERGY CODES

FACSIMILE TRANSMITTAL SHEET

Date: _____ From: _____

To: _____ Phone Number: _____

To Fax Number: (559) 498-4357 Fax Number: _____

Number of Pages Transmitted _____ including this page

PERMIT #: _____

PROJECT ADDRESS: _____

OWNER: _____

CONTRACTOR INFORMATION: _____
Company Name

_____
Address Phone Number

BUILDING USE: ☐ Apartments (three or more units per building) ☐ Condominiums

VALUATION – TOTAL COST OF ROOFING MATERIAL AND LABOR: _____

PROPOSED ROOFING MATERIA:

☐ Wood Shake/Shingles ☐ Asphalt Shingle/Composition ☐ Single Ply ☐ Metal

☐ Built-Up/Torch Down/Rolled ☐ Heavy/Light Weight Tile ☐ Foam/Liquid Coating ☐ Other_____

Installed Weight of Tile: _____ Roof Slope: _____ Roofing Area: _____

☐ Overlay (Only one existing roof may remain. Cool roof material not required.)
☐ Tear Off (Cool Roof Material required if greater than 50% of the roof is being replaced)
☐ Cool Roof Exception Requested (see page 2 of this form)

ROOFING MATERIAL INFORMATION AND APPROVALS:
(Note: Material required to be on site for inspector's verification)

Manufacturer's Name _____ ICC Evaluation Report No. _____

CRRC Product ID No. _____Solar Reflectance: _____ Thermal Emittance: _____ SRI: _____

COMMENTS: _____

_____

COOL ROOF PRODUCTS SHALL MEET THE REQUIREMENTS AS NOTED BELOW:

CALIFORNIA ENERGY CODE

SECTION 150.2 ROOF REPLACEMENTS - LOW-RISE RESIDENTIAL MULTI-FAMILY/CONDOMINIUM (3 OR MORE UNITS)

STRUCTURE	LOW-SLOPE < 2/12	STEEP SLOPE	SOLAR REFLECTANCE (MINIMUM)	THERMAL EMITTANCE (MINIMUM)	SRI	NOTES	EXCEPTIONS
LOW-RISE RESIDENTIAL	X		0.63	0.75	75	1	f
LOW-RISE RESIDENTIAL		X	0.20	0.75	16	2	a-b-c-d-e-f-g

EXCEPTIONS: (Circle which exception you are requesting)

a. Air-space of 1.0 inch is provided between the top of the roof deck to the bottom of the roofing product. (Note: Air space not allowed over existing wood shake or wood shingle roofs); **or**
b. The installed roofing product has a profile ratio of rise to width of 1 to 50 for 50percent or greater of the width of the roofing product; **or**
c. Existing ducts in the attic are insulated and sealed according to Section 150.1(c)9.*(Note: HERS rating required with CF3R Form)*; **or**
d. Building has at least R-38 ceiling insulation. *(Note: Insulation certification required)*; **or**
e. Building has a radiant barrier in the attic meeting the requirements of Section 150.1(c) 2. ; **or**
f. Building has no ducts in the attic. **or**
g. Minimum R-4 insulation installed above the roof deck. (Note: If foam plastic insulation is used, the roof sheathing must be T&G or blocked)

NOTES:

1. The aged solar reflectance can be met by using insulation at the roof deck specified in Table 150.2-A.

TABLE 150.2-A
AGED SOLAR REFLECTANCE INSULATION TRADE OFF TABLE

AGED SOLAR REFLECTANCE	ROOF DECK INSULATION R-VALUE	AGED SOLAR REFLECTANCE	ROOF DECK INSULATION R-VALUE
0.62-0.60	2	0.44-0.40	12
0.59-0.55	4	0.39-0.35	16
0.54-0.50	6	0.34-0.30	20
0.49-0.45	8	0.29-0.25	24

2. The attic ventilation is required to meet current California Building Code requirements when roofing with composition shingles due to the manufacturer's warranty requirements. Ventilation area must equal one square **f**oot for each 300 ft² of attic floor area. Vents must be installed with 50% high and 50% low. Low vents must be distributed equally around the structure. **The attached Attic Ventilation Worksheet is required to be completed. For large structures or structures with complex roof and attic areas a roof ventilation plan shall be provided.**

TYPICAL VALUES FOR ATTIC VENTS

Soffit Vents	Small Dormer Vents	Large Dormer Vents	Ridge Vents
3.5 x 14.5 = 30 sq ins 3.5 x 22.5 = 50 sq ins 5.5 x 22.5 = 80 sq ins	50 sq ins	100 sq ins	Per ICC Evaluation Report

City of FRESNO

Project Address: _____

ATTIC VENTILATION WORKSHEET

STEP 1
Determine Total Square Feet of Attic Floor Space ("Enclosed" Attic Space)

Length of Attic _____ x Width of Attic _____ = (a^1) _____ Square feet of attic space
(Repeat process for all attic areas)

Length of Attic _____ x Width of Attic _____ = (a^2) _____ Square feet of attic space
(Repeat process for all attic areas)

Areas without Attic Space / Unenclosed / Vaulted ceiling (b) = _____ Square feet

Net Ventable Attic Space (c) = _____ Square Feet (a) – (b) = (c)

STEP 2
Calculate Ventilation Requirement

(c) _____ ÷ 150 = (d) _____ Square feet of code required ventilation **or**

(c) _____ ÷ 300 = (d) _____ Square feet of code required ventilation

STEP 3
Convert Square Feet to Square Inches

(d)_____ X 144 = **(e) _____TOTAL square inches of code required ventilation**

STEP 4
Determine High & Low Ventilation Requirement

(e) _____ ÷2 (high & low ventilation) = (**f) _____ Square inches of code required ventilation (high & low)**

STEP 5
Determine Number of Existing Vents and Proposed New Vents in order to meet Ventilation Requirement

Existing High Vents: Number of vents _____ @ _____square inches = _____ square inches
Existing High Vents: Number of vents _____ @ _____square inches = _____ square inches
Proposed High Vents: Number of vents _____ @ _____square inches = _____ square inches
Total High Ventilation to be provided = _____ total square inches

Existing Low Vents: Number of Vents _____ @ _____ square inches = _____ square inches
Existing Low Vents: Number of Vents _____ @ _____ square inches = _____ square inches
Proposed Low Vents: Number of Vents _____ @ _____ square inches = _____ square inches
Total Low Ventilation to be provided = _____ total square inches

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Example: (for 1/300 method)

Step 1 Attic Area:	60 ft x 20 ft = (a) 1200 sq ft & (b) = 0
	(a) 1200 – (b) 0 = (c) 1200 sq ft
Step 2 Ventilation Calculation:	(c) 1200÷150 = (d) 4 sq ft
Step 3 Convert to Sq Inches:	(d) 4 sq ft x 144 = (e) 576 sq in
Step 4 High and Low Vent Area Req'mts:	(e) 576÷2 = (f) 288 square inches
Step 5:	
Provided Low Vents (intake):	6 soffit vents @ 48 square inches each = 288 square inches
Provided High Vents (exhaust):	6 dormer vents @ 48 square inches each = 288 square inches
Total Ventilation provided:	= 576 square inches